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(54) SURFACE-TREATED CALCIUM CARBONATE PRODUCT AND PRODUCTION METHOD THEREFOR

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a product containing a surface-treated calcium carbonate powder having low water content.

SOLUTION: This product is prepared by sealing a composition prepared by homogeneously mixing a surface-treated calcium carbonate powder with a dehydrating agent powder into a bag formed from an airtight material. Water contained in the calcium carbonate powder is removed by the dehydrating agent powder; therefore, the calcium carbonate powder is dried merely by allowing the product to stand for a suitable time. This product is obtained by subjecting a calcium carbonate powder to a surface treatment, drying the powder, mixing it with a dehydrating agent powder, and sealing the mixture into a bag formed from an airtight material. When the calcium carbonate powder in this product is compounded as a thixotropic agent or a filler into a one-component moisture-curable resin composition, the resin composition is prevented from curing during its storage because of the low water content of the calcium carbonate powder.

* NOTICES *

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1. This document has been translated by computer. So the translation may not reflect the original precisely.

2. **** shows the word which can not be translated.

3. In the drawings, any words are not translated.

CLAIMS

[Claim 1]

[Claim 1] Surface treatment calcium carbonate products which enclose a constituent which mixes calcium carbonate powder, surface treatment calcium carbonate powder and dehydrator powder with a bag which comprises an airtight raw material, and are characterized by things.

[Claim 2] A manufacturing method of surface treatment calcium carbonate products enclosing with a bag which performed a surface treatment to calcium carbonate powder, obtained surface treatment calcium carbonate powder, was subsequently promptly mixed with dehydrator powder after deaeration, and comprised an airtight raw material.

[Claim 3] A drying method of surface treatment calcium carbonate powder mixing uniformly surface treatment calcium carbonate powder and dehydrator powder, and enclosing with a bag which comprised an airtight raw material.

[Claim 4] A liquid moisture curing type resin composition which opens the surface treatment calcium carbonate product according to claim 1, and blends taken-out surface treatment calcium carbonate powder.

[Translation done.]

[0024]The surface treatment calcium carbonate powder (dehydrator powder is included.) after one-month neglect obtained in example 5 Example 2 was taken out, and the 1 liquid moisture curing type resin composition of the following presentation was manufactured using this.

Epoxy resin 100 weight section Hardening agent 40 weight section for epoxy resins Modified silicone resin 100 weight section Catalyst for modified silicone resin The amount part of diisox Surface treatment calcium carbonate powder 300 weight section here, As an epoxy resin, trade name Epicoat 828 made from oil recovery shell epoxy was used. As a hardening agent for epoxy resins, the trade name MS-900 made from oil recovery shell epoxy was used. As modified silicone resin, the Komeka Trade name MS-900 was used. As catalyst for modified silicone resin, the Komeka Trade name MS-900 was used. As the diisox Surface treatment calcium carbonate powder, the dicyclic compound (the Surface Organic Chemicals trade name Star No.918) was used.

[0025]When the same method as Example 1, estimated the storage stability of this 1 liquid moisture curing type resin composition, thickening was hardly accepted.

[0026]

[Effect of the invention]If the surface treatment calcium carbonate products concerning this invention are used, the moisture content of the surface treatment calcium carbonate powder in the product is reduced by below half grade compared with what is usually marketed. Therefore, since it is hard to harden during storage when a 1 liquid moisture curing type resin composition is manufactured using this surface treatment calcium carbonate powder, the effect of excelling in storage stability is done so.

[0027]If the surface treatment calcium carbonate products concerning this invention are used, the process, for example, an azeotropy process etc., of drying moisture from surface treatment calcium carbonate powder will become unnecessary. Therefore, the effect that manufacture of a 1 liquid moisture curing type resin composition can be rationalized also does so.

[0028]Above, although the case where the surface treatment calcium carbonate products concerning this invention were used when manufacturing a 1 liquid moisture curing type resin composition was explained, also when manufacturing a 2 liquid mixing hardening resin constituent or other various constituents, it can mainly use as a thixotropy agent or a bulking agent.

[Translation done.]